

Geological Technics Inc.

REPORT

Groundwater Monitoring 1st Quarter 2005

**Ham Station
34950 Hwy 88
Pioneer, Amador County, CA**

**Project No. 808.2
August 25, 2005**

**Prepared for:
Mr. Thomas A. Newcomer
Ham Station
34950 Hwy 88
Pioneer, CA 95666**

**Prepared by:
Geological Technics Inc.
1101 7th Street
Modesto, California 95354
209-522-4119**

Geological Technics Inc.

1101 7th Street
Modesto, California 95354
(209) 522-4119 / Fax (209) 522-4227

August 25, 2005

Project No.: 808.2
Project Name: Ham Station (Hwy 88)

Mr. Thomas A. Newcomer
Ham Station
34950 Hwy 88
Pioneer, CA

RE: Report: Groundwater Monitoring – 1st Quarter 2005
Location: Ham Station, 34950 Hwy 88, Pioneer, Amador County, CA

Dear Mr. Newcomer:

Geological Technics Inc. has prepared the following Report for the 1st Quarter 2005 groundwater-monitoring event at Ham Station, 34950 Highway 88 in Pioneer, CA. The report provides analytical results and discussion of the monitoring/sampling activities conducted at the site on March 11, 2005.

If you have any questions, please contact me at (209) 522-4119.

Respectfully submitted,

Raynold I. Kablanow II, Ph.D.
Vice President

cc: Kirk Larson – CRWQCB-CVR
Bob Fourt – Amador County
USTCF

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Geological Technics Inc.

1101 7th Street
Modesto, California 95354
(209) 522-4119 / Fax (209) 522-4227

REPORT

Groundwater Monitoring 1st Quarter 2005

**Ham Station
34950 Hwy 88
Pioneer, Amador County, CA**

Project No. 808.2
August 25, 2005

EXECUTIVE SUMMARY

This report summarizes the 1st Quarter 2005 round of groundwater monitoring and testing that took place at the site on March 11, 2005. Monitoring well MW-1 was non-detect above the laboratory detection limits for all analyzed constituents. This is the thirteenth consecutive monitoring event with these results. Monitoring wells (MW-2 through MW-5) were dry and not sampled.

The domestic well was non-detect above the laboratory detection limits for all analyzed constituents. The domestic well has been non-detect for all analyzed constituents since sampling began in October of 1999 with the exception of the November 2001 event.

The groundwater level in MW-1 increased approximately 3.70 feet since the December 2004 monitoring event. Dissolved oxygen concentration measured in MW-1 was 6.20 ppm. Oxidation-reduction potential was positive in both MW-1 and the domestic well. Field parameters are favorable for aerobic biodegradation.

A summary of groundwater elevation is included as Table 1. A summary of groundwater analytical data is included as Table 2. A summary of water quality parameters is included as Table 3.

1.0 GROUNDWATER MONITORING

1.1 Hydrogeology of Site

Depth-to-groundwater measurements, incorporating the new wells, were performed on March 11, 2005. This is the sixth groundwater-monitoring event since the installation of the new monitoring wells in October 2003. Site-specific groundwater gradient and bearing calculations could not be computed because only one monitoring well (MW-1) had measurable water levels.

On March 11, 2005, the depth to water in MW-1 was 145.03 feet bgs. The groundwater elevation in MW-1 is 5292.03 feet AMSL.

Table 1 in Appendix A contains groundwater elevation, bearing and slope data.

As required under AB2886, the depth to groundwater data was submitted electronically to GeoTracker on August 15, 2005, with confirmation number 1590835392.

1.2 Groundwater Sampling Procedure

Mr. Don Light of Del-Tech Geotechnical Services (Del-Tech) mobilized to the site on March 11, 2005, to sound, purge and sample the site's five groundwater-monitoring wells (MW-1 thru MW-5) and domestic well. Before sampling, the monitoring wells were sounded for depth to water with an electrically actuated sounding tape. The water level reading was recorded to an accuracy of 0.01 foot. No floating product or fuel odors were observed during this sampling event. Monitoring wells MW-2 through MW-5 were dry and could not be sounded.

MW-1 was purged of three well casing volumes of stagnant water using a 4-foot stainless steel bailer. Purging continued until the temperature, conductivity, and pH of the groundwater stabilized (<10% variation between three readings) indicating that formation water representative of aquifer conditions was entering the well. These water quality parameters were measured at intervals of each well volume purged.

Once purging was complete, a water sample was collected, from each well containing enough water, utilizing a 4-foot stainless steel bailer. Care was taken to minimize sample agitation. Once the sample container was filled and capped, the bottle was inverted, tapped, and checked for headspace bubbles. The sample container was identified and labeled with a unique designation, inserted into foam holders and placed in a cooled ice chest for transport to the laboratory.

All non-disposable sampling equipment was decontaminated using a hot water washer and Alconox soap before and between uses. Disposable gloves were used by the technician to collect all samples and were changed with each sample collection.

A chain of custody document, listing all samples collected, accompanied the samples from field to laboratory, thereby providing a means to track their movement and insure their integrity.

All purge water was placed in a 55 gallon DOT approved container, properly labeled and stored on site until its proper disposition can be arranged.

Groundwater monitoring field logs are included in Appendix C.

1.3 Laboratory Analyses

The groundwater samples collected on March 11, 2005, were delivered to Sequoia Analytical of Sacramento, California (ELAP #1624) for analysis of:

- BTEX and Gasoline Range Organics by EPA method 8021/8015
- Diesel Range Organics by EPA method 8015
- MtBE by EPA method 8021/8015

The detection limits for the above analyses are listed in Table 2 of Appendix A, while the lab analytical results are presented in Appendix B.

As required under AB2886, the laboratory data was submitted electronically to GeoTracker on August 23, 2005. The confirmation number is 97339977538.

2.0 FINDINGS AND DISCUSSION

The results of the groundwater sample analyses from the domestic well and MW-1 show the following:

- For the fourth consecutive event, MW-2 was dry.
- For the fifth consecutive event, MW-3, MW-4 and MW-5 were dry and water samples could not be collected.
- Both the domestic well and MW-1 were non-detect above laboratory reporting limits for all analyzed constituents.
- This is the thirteenth consecutive non-detect event for MW-1.
- The domestic well has been non-detect for all analyzed constituents since October of 1999 with one exception noted in the 4th Quarter Monitoring Report – February 4, 2003.
- All other wells were dry and thus groundwater analyses were not performed.

- DO readings are close to saturation levels. Previous measurements of 1.6 to 3.0 ppm are more likely representative of aquifer conditions. If contamination were to reach the water table, the dissolved oxygen levels are favorable for aerobic biodegradation.

3.0 RECOMMENDATIONS

- GTI is preparing a work plan to determine the presence of and define the extent of petroleum hydrocarbons near the site of a soil vapor anomaly on the property as per CRWQCB directive dated July 22, 2005.
- Groundwater monitoring will resume in the third quarter of 2005 and continue until the completion of a CRWQCB *No Further Action Required* review.

4.0 LIMITATIONS

This report was prepared in accordance with the generally accepted standard of care and practice in effect at the time Services were rendered. It should be recognized that definition and evaluation of environmental conditions is an inexact science and that the state or practice of environmental geology/hydrology is changing and evolving and that standards existing at the present time may change as knowledge increases and the state of the practice continues to improve. Further, that differing subsurface soil characteristics can be experienced within a small distance and therefore cannot be known in an absolute sense. All conclusions and recommendations are based on the available data and information.

The tasks proposed and completed during this project were reviewed and approved by the local regulatory agency for compliance with the law. No warranty, expressed or implied, is made.

5.0 SIGNATURES AND CERTIFICATION

This report was prepared by:

Eric L. Price
Geologist

Raynold Kablanow II, Ph.D.
California Professional Geologist #5234
Certified Hydrogeologist #442



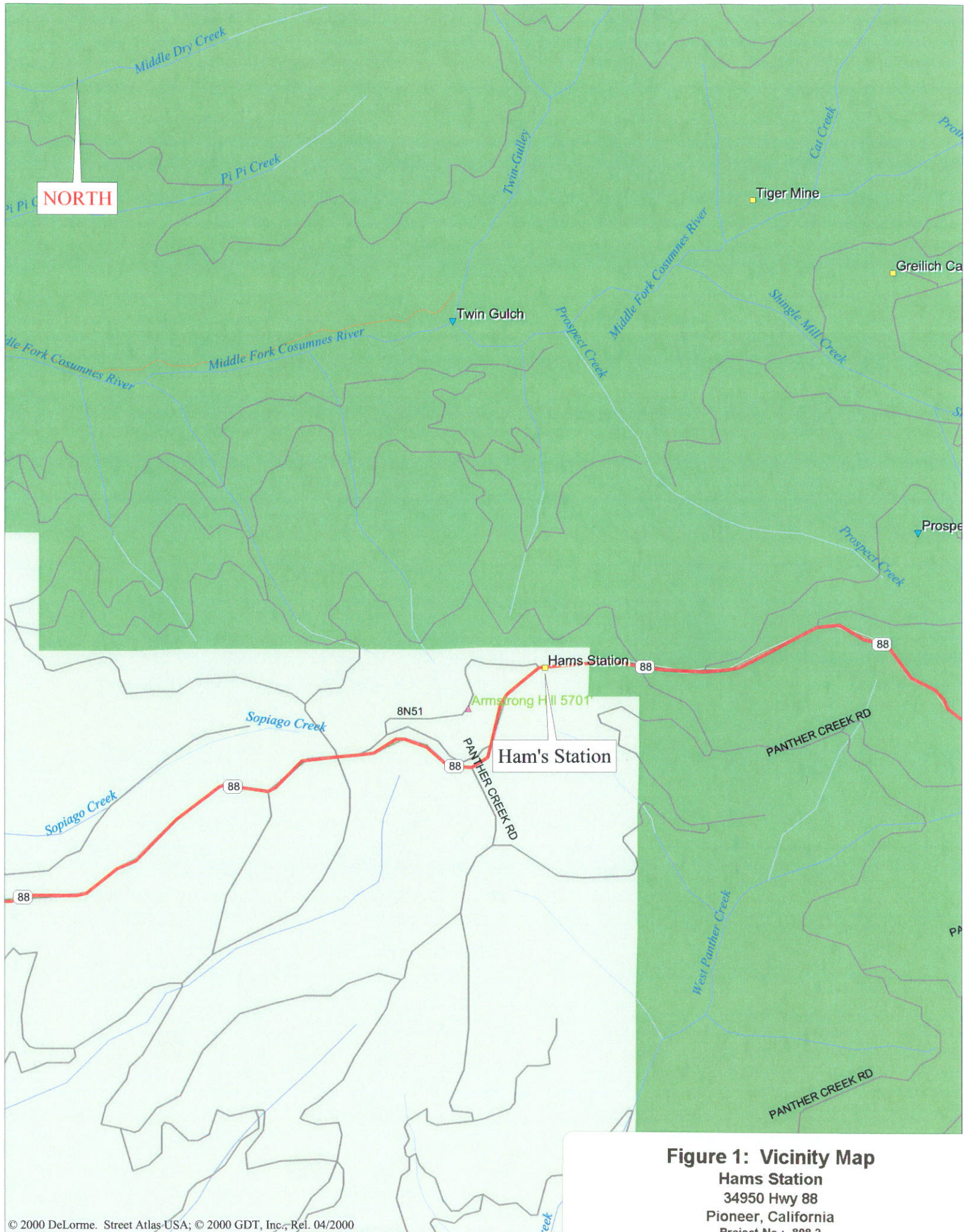


Figure 1: Vicinity Map

Ham's Station

34950 Hwy 88

Pioneer, California

Project No.: 808.2

1 Inch = 0.49 Miles

Highway 88

Fog Line

HA-1 ○ HA-2 ○ HA-3 ○

SB-1

HA-4 ○

HA-5

EOP

Bathroom

Store

Shed

Patio

Cabin

Cabin

Cabin

HA-5

HA-4

HA-6



Domestic Well

Figure 2: Site Map

Ham Station

34950 Hwy 88

Pioneer, CA

Project No. 808.2

Geological Techniques Inc.

01/18/05

LEGEND



Soil Boring Location



Monitoring Well



Hand Auger Sample Points



Domestic Well



Pit Excavation



Structures and Dwellings



0

50'

SCALE

Appendix A

Data Tables

Table 1: Summary of Groundwater Elevation, Bearing and Slope

Ham Station
34950 Hwy 88
Pioneer, Amador, CA
Project No. 808.2

Groundwater Monitoring Data										
Date	MW-1 GWL Elev.	MW-2 GWL Elev.	MW-3 GWL Elev.	MW-4 GWL Elev.	MW-5 GWL Elev.	Average Elevation all wells	Average Elevation int wells	Average DTW int wells	*Gradient Bearing	*Gradient Slope ft/ft
TD	168.50	67.29	34.10	65.76	66.21					
TOC	5437.06	5436.92	5436.92	5432.90	5438.61					
03/07/03	5286.54									
07/15/03	5287.86									
10/15/03	5287.21									
12/08/03	5285.20	5382.35	5406.95	5367.51	5381.42	5354.12	5377.09	59.05	S26°E	0.2905
03/28/04	5287.21	5372.59	DRY	5367.83	5374.22	5350.46	5371.55	64.60	S02°W	0.0976
06/11/04	5285.33	DRY	DRY	DRY	DRY	5285.33	NA	NA	NA	NA
08/31/04	5287.44	DRY	DRY	DRY	DRY	5287.44	NA	NA	NA	NA
12/14/04	5288.33	DRY	DRY	DRY	DRY	5288.33	NA	NA	NA	NA
03/11/05	5292.03	DRY	DRY	DRY	DRY	5292.03	NA	NA	NA	NA
Historical Averages =						5309.62	5374.32	61.82	S12°E	0.1941

*Bearing and Slope determined using MW -2, MW -4 and MW -5

Table 2: Summary of Groundwater Analytical Data

Ham Station
34950 Highway 88
Pioneer, CA
Project No. 808.2

Summary of Groundwater Analytical Data														
Sample Designation	Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	Total Xylenes ug/L	TPH Gasoline ug/L	TEPH Diesel ug/L	MTBE ug/L	DIPE ug/L	ETBE ug/L	TAME ug/L	TBA ug/L	1,2-DCA ug/L	EDB ug/L
MW-1 (175')	10/05/00	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	10/06/00	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
MW-1	10/09/00	62	203	22	154	1230	N/A	85	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	10/16/00	12	5	0.4	14	108	N/A	53	ND<5	ND<5	ND<5	28	ND<0.5	ND<0.5
	12/12/00	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	31	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	03/14/01	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<11	N/A	N/A
	06/15/01	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	09/23/01	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	11/09/01	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	12/19/02	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	03/07/03	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<1	ND<5	ND<5	ND<5	ND<10	N/A	N/A
	07/15/03	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	10/15/03	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	03/28/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	06/11/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	08/31/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	12/14/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
03/11/05	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	ND<50	ND<2	N/A	N/A	N/A	N/A	N/A	N/A	
MW-2	03/28/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	0.62	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	06/11/04							DRY						
	08/31/04							DRY						
	12/14/04							DRY						
MW-3	03/11/05							DRY						
	03/28/04							DRY						
	06/11/04							DRY						
	08/31/04							DRY						
	12/14/04							DRY						
	03/11/05							DRY						

Summary of Groundwater Analytical Data														
Sample Designation	Date Sampled	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	Total Xylenes ug/L	TPH Gasoline ug/L	TEPH Diesel ug/L	MTBE ug/L	DIPE ug/L	ETBE ug/L	TAME ug/L	TBA ug/L	1,2-DCA ug/L	EDB ug/L
MW-4	06/11/04							DRY						
	08/31/04							DRY						
	12/14/04							DRY						
	03/11/05							DRY						
MW-5	03/28/04							DRY						
	06/11/04							DRY						
	08/31/04							DRY						
	12/14/04							DRY						
Domestic Well	03/11/05							DRY						
	10/26/99	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	ND<5	N/A
	04/19/01	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	06/15/01	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	09/23/01	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	11/09/01	ND<0.3	ND<0.3	ND<0.3	ND<0.3	215	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A
	12/19/02	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	03/07/03	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<1	ND<5	ND<5	ND<5	ND<10	N/A	N/A
	07/15/03	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	10/15/03	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	03/28/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	06/11/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	08/31/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
	12/14/04	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<20	N/A	N/A
Spring #1	03/11/05	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	ND<50	ND<2	N/A	N/A	N/A	N/A	N/A	N/A
	01/18/00	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	ND<5	N/A
Meyer's Spring	10/05/00	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	N/A	ND<5	ND<5	ND<5	ND<5	ND<20	N/A	N/A

Table 3: Summary of Water Quality Parameter Data

Ham Station
34950 Highway 88
Pioneer, California
Project No. 808.2

Monitoring Well	MW-1					MW-2					MW-3				
Date	pH	E.C.	°C	ORP	DO	pH	E.C.	°C	ORP	DO	pH	E.C.	°C	ORP	DO
10/16/00	8.02	193	9.3	210	N/A										
12/11/00	7.74	190	9.5	140	N/A										
03/14/01	8.04	197	10.2	122	N/A										
06/15/01	7.62	145	10.5	218	N/A										
09/23/01	7.95	150	10.3	18	N/A										
11/09/01	7.88	150	10.4	156	N/A										
12/19/02	8.32	146	7.21	56	1.56										
03/07/03	7.84	152	10.3	173	1.70										
07/15/03	7.57	170	9.8	129	7.42										
10/15/03	8.45	135	9.3	71	3.10										
03/28/04	8.57	195	10.5	19.4	7.68	8.48	317	11	58	3.00	DRY				
06/11/04	7.95	178	10.2	24	7.80	DRY					DRY				
08/31/04	7.97	170	10.4	43	7.50	DRY					DRY				
12/14/04	7.83	162	10.3	11	7.72	DRY					DRY				
03/11/05	7.96	240	10.3	68	6.20	DRY					DRY				

Monitoring Well	MW-4					MW-5					Domestic Well				
Date	pH	E.C.	°C	ORP	DO	pH	E.C.	°C	ORP	DO	pH	E.C.	°C	ORP	DO
10/16/00															
12/11/00															
03/14/01															
06/15/01															
09/23/01											8.10	162	15.5	27	N/A
11/09/01											8.07	150	14.8	35	N/A
12/19/02											8.23	121	6.32	85	2.40
03/07/03											8.10	142	12.7	47	N/A
07/15/03											8.18	168	13.3	77.9	N/A
10/15/03											8.43	129	10.9	62	N/A
03/28/04	DRY					DRY					8.65	140	8.8	19.9	N/A
06/11/04	DRY					DRY					8.25	145	10.8	83.1	N/A
08/31/04	DRY					DRY					8.22	140	10.6	99.1	N/A
12/14/04	DRY					DRY					8.12	162	10.3	107.8	N/A
03/11/05	DRY					DRY					7.63	202	14.0	67.9	N/A

Appendix B
Laboratory Data Sheets



**Sequoia
Analytical**

819 Striker Ave Ste 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

30 March, 2005

Eric Price
Geological Technics, Inc.
1101 7th Street
Modesto, CA 95354

RE: Ham's Station
Work Order: S503405

Enclosed are the results of analyses for samples received by the laboratory on 03/16/05 10:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alan B. Kemp For Sylvia Krenn
Project Manager

CA ELAP Certificate #1624



Geological Technics, Inc.
1101 7th Street
Modesto CA, 95354

Project:Ham's Station
Project Number:[none]
Project Manager:Eric Price

S503405
Reported:
03/30/05 12:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	S503405-01	Water	03/11/05 14:38	03/16/05 10:47
DW-1	S503405-02	Water	03/11/05 14:10	03/16/05 10:47

`&□□



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(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

Geological Technics, Inc.
1101 7th Street
Modesto CA, 95354

Project: Ham's Station
Project Number: [none]
Project Manager: Eric Price

S503405
Reported:
03/30/05 12:41

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S503405-01) Water Sampled: 03/11/05 14:38 Received: 03/16/05 10:47									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5030392	03/22/05	03/22/05	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		107 %	60-140		"	"	"	"	
Surrogate: a,a,a-TFT (PID)		86 %	60-140		"	"	"	"	
DW-1 (S503405-02) Water Sampled: 03/11/05 14:10 Received: 03/16/05 10:47									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5030392	03/22/05	03/22/05	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)		109 %	60-140		"	"	"	"	
Surrogate: a,a,a-TFT (PID)		88 %	60-140		"	"	"	"	



Geological Technics, Inc.
1101 7th Street
Modesto CA, 95354

Project:Ham's Station
Project Number:[none]
Project Manager:Eric Price

S503405
Reported:
03/30/05 12:41

Extractable Hydrocarbons by EPA 8015B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S503405-01) Water Sampled: 03/11/05 14:38 Received: 03/16/05 10:47									
Diesel Range Organics (C10-C28)	ND	50	ug/l	1	5030318	03/18/05	03/18/05	EPA 8015B-SVOA	
<i>Surrogate: Octacosane</i>		97 %	50-150		"	"	"	"	
DW-1 (S503405-02) Water Sampled: 03/11/05 14:10 Received: 03/16/05 10:47									
Diesel Range Organics (C10-C28)	ND	50	ug/l	1	5030318	03/18/05	03/18/05	EPA 8015B-SVOA	
<i>Surrogate: Octacosane</i>		88 %	50-150		"	"	"	"	



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Geological Technics, Inc.
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Modesto CA, 95354

Project: Ham's Station
Project Number: [none]
Project Manager: Eric Price

S503405
Reported:
03/30/05 12:41

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5030392 - EPA 5030B (P/T) / EPA 8015B/8021B

Blank (5030392-BLK1)

Prepared & Analyzed: 03/22/05

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: 4-BFB (FID)	9.93		"	10.0		99	60-140			
Surrogate: a,a,a-TFT (PID)	8.55		"	10.0		86	60-140			

Blank (5030392-BLK2)

Prepared & Analyzed: 03/23/05

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: 4-BFB (FID)	10.4		"	10.0		104	60-140			
Surrogate: a,a,a-TFT (PID)	8.85		"	10.0		88	60-140			

Blank (5030392-BLK3)

Prepared & Analyzed: 03/24/05

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: 4-BFB (FID)	10.3		"	10.0		103	60-140			
Surrogate: a,a,a-TFT (PID)	8.80		"	10.0		88	60-140			

Sequoia Analytical - Sacramento

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



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Project: Ham's Station
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Reported:
03/30/05 12:41

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5030392 - EPA 5030B (P/T) / EPA 8015B/8021B

Laboratory Control Sample (5030392-BS1)

Prepared & Analyzed: 03/22/05

Benzene	9.59	0.50	ug/l	10.0		96	70-130			
Toluene	9.48	0.50	"	10.0		95	70-130			
Ethylbenzene	9.63	0.50	"	10.0		96	70-130			
Xylenes (total)	28.3	0.50	"	30.0		94	70-130			
Methyl tert-butyl ether	10.5	2.0	"	10.0		105	70-130			
Surrogate: 4-BFB (FID)	10.9		"	10.0		109	60-140			
Surrogate: a,a,a-TFT (PID)	8.97		"	10.0		90	60-140			

Laboratory Control Sample (5030392-BS2)

Prepared & Analyzed: 03/23/05

Benzene	9.83	0.50	ug/l	10.0		98	70-130			
Toluene	9.69	0.50	"	10.0		97	70-130			
Ethylbenzene	9.86	0.50	"	10.0		99	70-130			
Xylenes (total)	29.1	0.50	"	30.0		97	70-130			
Methyl tert-butyl ether	10.7	2.0	"	10.0		107	70-130			
Surrogate: 4-BFB (FID)	11.0		"	10.0		110	60-140			
Surrogate: a,a,a-TFT (PID)	8.84		"	10.0		88	60-140			

Laboratory Control Sample (5030392-BS3)

Prepared & Analyzed: 03/24/05

Benzene	9.10	0.50	ug/l	10.0		91	70-130			
Toluene	9.21	0.50	"	10.0		92	70-130			
Ethylbenzene	9.34	0.50	"	10.0		93	70-130			
Xylenes (total)	27.4	0.50	"	30.0		91	70-130			
Methyl tert-butyl ether	9.34	2.0	"	10.0		93	70-130			
Surrogate: 4-BFB (FID)	9.68		"	10.0		97	60-140			
Surrogate: a,a,a-TFT (PID)	8.61		"	10.0		86	60-140			

Matrix Spike (5030392-MS1)

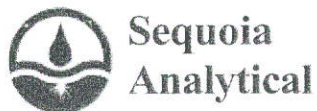
Source: S503405-02

Prepared & Analyzed: 03/22/05

Benzene	9.97	0.50	ug/l	10.0	ND	100	60-140			
Toluene	9.94	0.50	"	10.0	ND	99	60-140			
Ethylbenzene	10.0	0.50	"	10.0	ND	100	60-140			
Xylenes (total)	29.7	0.50	"	30.0	ND	99	60-140			
Methyl tert-butyl ether	11.0	2.0	"	10.0	ND	110	60-140			
Surrogate: 4-BFB (FID)	10.3		"	10.0		103	60-140			
Surrogate: a,a,a-TFT (PID)	8.60		"	10.0		86	60-140			

Sequoia Analytical - Sacramento

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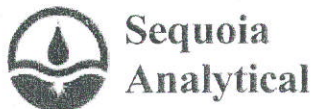
S503405
Reported:
03/30/05 12:41

Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5030392 - EPA 5030B (P/T) / EPA 8015B/8021B

Matrix Spike Dup (5030392-MSD1)	Source: S503405-02			Prepared & Analyzed: 03/22/05						
Benzene	9.56	0.50	ug/l	10.0	ND	96	60-140	4	25	
Toluene	9.54	0.50	"	10.0	ND	95	60-140	4	25	
Ethylbenzene	9.58	0.50	"	10.0	ND	96	60-140	4	25	
Xylenes (total)	28.2	0.50	"	30.0	ND	94	60-140	5	25	
Methyl tert-butyl ether	10.4	2.0	"	10.0	ND	104	60-140	6	25	
Surrogate: 4-BFB (FID)	13.2		"	10.0		132	60-140			
Surrogate: a,a,a-TFT (PID)	8.60		"	10.0		86	60-140			



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Extractable Hydrocarbons by EPA 8015B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5030318 - EPA 3510C / EPA 8015B-SVOA

Blank (5030318-BLK1)

Prepared & Analyzed: 03/18/05

Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: Octacosane	14.9		"	20.0		74	50-150			

Laboratory Control Sample (5030318-BS1)

Prepared & Analyzed: 03/18/05

Diesel Range Organics (C10-C28)	414	50	ug/l	500		83	60-140			
Surrogate: Octacosane	16.2		"	20.0		81	50-150			

Laboratory Control Sample Dup (5030318-BSD1)

Prepared & Analyzed: 03/18/05

Diesel Range Organics (C10-C28)	390	50	ug/l	500		78	60-140	6	50	
Surrogate: Octacosane	15.2		"	20.0		76	50-150			



**Sequoia
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Project:Ham's Station
Project Number:[none]
Project Manager:Eric Price

S503405
Reported:
03/30/05 12:41

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Appendix C

Groundwater Monitoring Field Logs



**2005
GROUNDWATER
FIELD MONITORING
SUMMARY REPORT**

SITE:

**HAM'S STATION
34950 HIGHWAY 88
PIONEER, CA
March 11, 2005**



DEL-TECH GEOTECHNICAL SUPPORT SERVICES

MONITORING WELL FIELD LOG 2005

SAMPLE LOCATION / MW -		1		DATE:		3/11/2005			
PROJECT NAME:		HAM'S STATION		ANALYSIS PERFORMED:		SEE CHAIN OF CUSTODY			
ADDRESS:		34950 HIGHWAY 88		SAMPLE TIME:		14:38			
CITY, STATE:		PIONEER, CA		SAMPLE CONTAINERS:		4 V.O.A.'S / 1 LITER NEAT			
SITE CONTACT:		TOM NEWCOMER		PRESERVATIVES:		HCL			
CONSULTANT:		GEOLOGICAL TECHNICS		LAB. ANALYSIS BY:		SEQUOIA			
PROJECT MANAGER:		ERIC PRICE		MONUMENT:		FLUSH			
SAMPLER:		DEL-TECH / DON LIGHT		WELL CASING MATERIAL		PVC			
SIGNED:		<i>Don Light</i>		WELL CASING DIA. :		2" /		0.1632	
SAMPLE MEDIA:		GROUNDWATER		P.I.D. READING / ODOR:		N/A		NONE	
TOP OF CASING ELEVATION:		MSL		COLOR:		CLEAR			
DEPTH TO WATER:		(feet.100th's) 145.03		FEET		CALC. PURGE VOL.:		3.83 GAL.	
DEPTH OF WELL:		(feet.100th's) 168.50		FEET		TOTAL VOLUME PURGED:		11.49 GAL.	
STANDING WATER COLUMN:		23.47		FEET		DEPTH OF PUMP:		168 FEET	
FIELD PARAMETERS									
TIME	CUMULATIVE CASING VOLUME PER PURGE	DRAW DOWN (D.T.W.)	PUMPING RATE (GPM/LPM)	pH (units)	E. C. (UmMHOS)	TEMP. (Celsius)	O.R.P. (Mvolts)	DISSOLVED OXYGEN (PPM)	TURBIDITY COLOR (N.T.U.)
	0	N/A	.5 GPM	8.36	252	12.7	80.2	3.8	CLEAR
	3.83	"	"	8.14	248	10.7	74	5.50	"
	7.66	"	"	7.99	245	10.3	70	5.80	"
	11.49	"	"	7.96	240	10.3	68	6.20	"
PURGE METHOD: 4' STAINLESS STEEL BAILER.									
SAMPLE METHOD: 4' STAINLESS STEEL BAILER.									
D. T. W. AFTER PURGE: D. T. W. AT SAMPLE TIME: 152.16'									
WELL INTEGRITY: CAP & SEAL ARE SECURE.									
WELL LOCATION: SEE SITE MAP.									
REMARKS: DOMESTIC WELL PH = 7.63 / E.C.= 202 / TEMP.= 14.0 / O.R.P.= 67.9 / CLEAR									
WEATHER: CLEAR / COLD WIND: NONE									
QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.									
CONTAINMENT: D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.									
INSTRUMENTATION: Y.S.I. 3560 FLOWCELL Y.S.I. DISSOLVED OXYGEN METER									
SOLINIST SLOPE METER THERMODINE 580B P.I.D.									
KECK INTERFACE METER TURBIDITY METER									
# OF DRUMS ON SIGHT: WATER: 1 SOIL: 0									



DEL-TECH GEOTECHNICAL SUPPORT SERVICES

MONITORING WELL FIELD LOG 2005

SAMPLE LOCATION / MW - 2 **DATE:** 3/11/2005

PROJECT NAME:	HAM'S STATION	ANALYSIS PERFORMED:	NONE
ADDRESS:	34950 HIGHWAY 88	SAMPLE TIME:	NO SAMPLE TAKEN
CITY, STATE:	PIONEER, CA	SAMPLE CONTAINERS:	N/A
SITE CONTACT:	TOM NEWCOMER	PRESERVATIVES:	N/A
CONSULTANT:	GEOLOGICAL TECHNICS	LAB. ANALYSIS BY:	N/A

PROJECT MANAGER:	ERIC PRICE	MONUMENT:	FLUSH
SAMPLER:	DEL-TECH / DON LIGHT	WELL CASING MATERIAL	PVC
SIGNED:	<i>Don Light</i>	WELL CASING DIA. :	2" / 0.1632
SAMPLE MEDIA:	GROUNDWATER	P.I.D. READING / ODOR:	N/A N/A
TOP OF CASING ELEVATION:	MSL	COLOR:	N/A
DEPTH TO WATER: (feet.100th's)	DRY FEET	CALC. PURGE VOL.:	N/A GAL.
DEPTH OF WELL: (feet.100th's)	67.16 FEET	TOTAL VOLUME PURGED:	N/A GAL.
STANDING WATER COLUMN:	#VALUE! FEET	DEPTH OF PUMP:	67 FEET

FIELD PARAMETERS

TIME	CUMULATIVE CASING VOLUME PER PURGE	DRAW DOWN (D.T.W.)	PUMPING RATE (GPM/LPM)	pH (units)	E. C. (UmMHOS)	TEMP. (Celsius)	O.R.P. (Mvolts)	DISSOLVED OXYGEN (PPM)	TURBIDITY COLOR (N.T.U.)
	0	DRY							
	N/A								

PURGE METHOD: N/A
SAMPLE METHOD: N/A
D. T. W. AFTER PURGE: **D. T. W. AT SAMPLE TIME:** N/A

WELL INTEGRITY: CAP & SEAL ARE SECURE.

WELL LOCATION: SEE SITE MAP.

REMARKS:

WEATHER: CLEAR / COLD **WIND:** NONE

QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.

CONTAINMENT: D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.

INSTRUMENTATION:	Y.S.I. 3560 FLOWCELL	Y.S.I. DISSOLVED OXYGEN METER
	SOLINIST SLOPE METER	THERMODINE 580B P.I.D.
	KECK INTERFACE METER	TURBIDITY METER



DEL-TECH GEOTECHNICAL SUPPORT SERVICES

MONITORING WELL FIELD LOG 2005

SAMPLE LOCATION / MW - 3 **DATE:** 3/11/2005

PROJECT NAME:	HAM'S STATION	ANALYSIS PERFORMED:	NONE
ADDRESS:	34950 HIGHWAY 88	SAMPLE TIME:	NO SAMPLE TAKEN
CITY, STATE:	PIONEER, CA	SAMPLE CONTAINERS:	N/A
SITE CONTACT:	TOM NEWCOMER	PRESERVATIVES:	N/A
CONSULTANT:	GEOLOGICAL TECHNICS	LAB. ANALYSIS BY:	N/A

PROJECT MANAGER:	ERIC PRICE	MONUMENT:	FLUSH
SAMPLER:	DEL-TECH / DON LIGHT	WELL CASING MATERIAL	PVC
SIGNED:	<i>Don Light</i>	WELL CASING DIA. :	2" / 0.1632
SAMPLE MEDIA:	GROUNDWATER	P.I.D. READING / ODOR:	N/A N/A
TOP OF CASING ELEVATION:	MSL	COLOR:	N/A
DEPTH TO WATER: (feet.100th's)	DRY FEET	CALC. PURGE VOL.:	N/A GAL.
DEPTH OF WELL: (feet.100th's)	34.10 FEET	TOTAL VOLUME PURGED:	N/A GAL.
STANDING WATER COLUMN:	#VALUE! FEET	DEPTH OF PUMP:	N/A FEET

FIELD PARAMETERS

TIME	CUMULATIVE CASING VOLUME PER PURGE	DRAW DOWN (D.T.W.)	PUMPING RATE (GPM/LPM)	pH (units)	E. C. (UmMHOS)	TEMP. (Celsius)	O.R.P. (Mvolts)	DISSOLVED OXYGEN (PPM)	TURBIDITY COLOR (N.T.U.)
	0	DRY							
	N/A								

PURGE METHOD: N/A
SAMPLE METHOD: N/A
D. T. W. AFTER PURGE: D. T. W. AT SAMPLE TIME: N/A
WELL INTEGRITY: CAP & SEAL ARE SECURE.
WELL LOCATION: SEE SITE MAP.
REMARKS:

WEATHER: CLEAR / COLD **WIND:** NONE
QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.
CONTAINMENT: D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.

INSTRUMENTATION: Y.S.I. 3560 FLOWCELL Y.S.I. DISSOLVED OXYGEN METER
 SOLINIST SLOPE METER THERMODINE 580B P.I.D.
 KECK INTERFACE METER TURBIDITY METER



DEL-TECH GEOTECHNICAL SUPPORT SERVICES

MONITORING WELL FIELD LOG 2005

SAMPLE LOCATION / MW - 4 **DATE:** 3/11/2005

PROJECT NAME:	HAM'S STATION	ANALYSIS PERFORMED:	NONE
ADDRESS:	34950 HIGHWAY 88	SAMPLE TIME:	NO SAMPLE TAKEN
CITY, STATE:	PIONEER, CA	SAMPLE CONTAINERS:	N/A
SITE CONTACT:	TOM NEWCOMER	PRESERVATIVES:	N/A
CONSULTANT:	GEOLOGICAL TECHNICS	LAB. ANALYSIS BY:	N/A

PROJECT MANAGER:	ERIC PRICE	MONUMENT:	FLUSH
SAMPLER:	DEL-TECH / DON LIGHT	WELL CASING MATERIAL	PVC
SIGNED:	<i>Don Light</i>	WELL CASING DIA. :	2" / 0.1632
SAMPLE MEDIA:	GROUNDWATER	P.I.D. READING / ODOR:	N/A / N/A
TOP OF CASING ELEVATION:	MSL	COLOR:	N/A
DEPTH TO WATER: (feet.100th's) DRY	FEET	CALC. PURGE VOL.:	N/A GAL.
DEPTH OF WELL: (feet.100th's) 65.20	FEET	TOTAL VOLUME PURGED:	N/A GAL.
STANDING WATER COLUMN: #VALUE!	FEET	DEPTH OF PUMP:	N/A FEET

FIELD PARAMETERS

TIME	CUMULATIVE CASING VOLUME PER PURGE	DRAW DOWN (D.T.W.)	PUMPING RATE (GPM/LPM)	pH (units)	E. C. (UmMHOS)	TEMP. (Celsius)	O.R.P. (Mvolts)	DISSOLVED OXYGEN (PPM)	TURBIDITY COLOR (N.T.U.)
	0	DRY							
	N/A								

PURGE METHOD: N/A
SAMPLE METHOD: N/A
D. T. W. AFTER PURGE: **D. T. W. AT SAMPLE TIME:** N/A

WELL INTEGRITY: CAP & SEAL ARE SECURE.

WELL LOCATION: SEE SITE MAP.

REMARKS:

WEATHER: CLEAR / COLD **WIND:** NONE

QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.

CONTAINMENT: D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.

INSTRUMENTATION:	Y.S.I. 3560 FLOWCELL	Y.S.I. DISSOLVED OXYGEN METER
	SOLINIST SLOPE METER	THERMODINE 580B P.I.D.
	KECK INTERFACE METER	TURBIDITY METER



DEL-TECH GEOTECHNICAL SUPPORT SERVICES

MONITORING WELL FIELD LOG 2005

SAMPLE LOCATION / MW - 5 **DATE:** 3/11/2005

PROJECT NAME:	HAM'S STATION	ANALYSIS PERFORMED:	NONE
ADDRESS:	34950 HIGHWAY 88	SAMPLE TIME:	NO SAMPLE TAKEN
CITY, STATE:	PIONEER, CA	SAMPLE CONTAINERS:	N/A
SITE CONTACT:	TOM NEWCOMER	PRESERVATIVES:	N/A
CONSULTANT:	GEOLOGICAL TECHNIQS	LAB. ANALYSIS BY:	N/A

PROJECT MANAGER:	ERIC PRICE	MONUMENT:	FLUSH
SAMPLER:	DEL-TECH / DON LIGHT	WELL CASING MATERIAL	PVC
SIGNED:	<i>Don Light</i>	WELL CASING DIA. :	2" / 0.1632
SAMPLE MEDIA:	GROUNDWATER	P.I.D. READING / ODOR:	N/A N/A
TOP OF CASING ELEVATION:	MSL	COLOR:	N/A
DEPTH TO WATER: (feet.100th's)	DRY FEET	CALC. PURGE VOL.:	N/A GAL.
DEPTH OF WELL: (feet.100th's)	65.80 FEET	TOTAL VOLUME PURGED:	N/A GAL.
STANDING WATER COLUMN:	#VALUE! FEET	DEPTH OF PUMP:	N/A FEET

FIELD PARAMETERS

TIME	CUMULATIVE CASING VOLUME PER PURGE	DRAW DOWN (D.T.W.)	PUMPING RATE (GPM/LPM)	pH (units)	E. C. (UmMHOS)	TEMP. (Celsius)	O.R.P. (Mvolts)	DISSOLVED OXYGEN (PPM)	TURBIDITY COLOR (N.T.U.)
	0	DRY							
	N/A								

PURGE METHOD: N/A
SAMPLE METHOD: N/A
D. T. W. AFTER PURGE: **D. T. W. AT SAMPLE TIME:** N/A

WELL INTEGRITY: CAP & SEAL ARE SECURE.

WELL LOCATION: SEE SITE MAP.

REMARKS:

WEATHER: CLEAR / COLD **WIND:** NONE

QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.

CONTAINMENT: D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.

INSTRUMENTATION:	Y.S.I. 3560 FLOWCELL	Y.S.I. DISSOLVED OXYGEN METER
	SOLINIST SLOPE METER	THERMODINE 580B P.I.D.
	KECK INTERFACE METER	TURBIDITY METER



MONITORING WELL FIELD SUMMARY LOG 2005

DEPTH TO WATER MEASUREMENTS

NOTE:

ALL MEASUREMENTS ARE MADE FROM THE NORTH SIDE AND TOP EDGE OF THE WELL CASING. THE TOP OF CASING WITH A NOTCH OR PERMENANT MARKINGS, WHICH EVER ONE CONDITION IS APPROPRIATE.